

Title (en)

SEPARATION OF METHOXYISOPROPYLAMINE FROM METHOXYISOPROPYLAMINE-WATER AZEOTROPE

Publication

EP 0508280 A3 19921119 (EN)

Application

EP 92105530 A 19920331

Priority

US 68184791 A 19910408

Abstract (en)

[origin: US5074967A] A process for the recovery of methoxyisopropylamine from the reaction of methoxyisopropanol and ammonia under amination conditions. Water is produced as a byproduct and in the distillation separation an azeotrope is formed which includes about 14% water and 86% methoxyisopropylamine. The improvement for enhancing separation of the azeotrope includes initially distilling the mixture of methoxyisopropylamine, methoxyisopropanol and water under sufficient elevated pressure wherein an azeotrope of water and methoxyisopropylamine overhead and an essentially water free bottoms of methoxyisopropylamine and methoxyisopropanol are formed. The overhead from this initial distillation column is charged to a second distillation column operated at reduced pressure wherein an organic free bottoms containing primarily water is obtained. The bottoms from the elevated pressure distillation column is fractionated in a product column and product methoxyisopropylamine is recovered as an overhead and methoxyisopropanol as a bottoms. The overheads from the lower pressure distillation column is returned to the elevated pressure column and all of the methoxyisopropylamine is recovered.

IPC 1-7

C07C 213/10

IPC 8 full level

C07C 213/02 (2006.01)

CPC (source: EP US)

C07C 213/02 (2013.01 - EP US)

Citation (search report)

- [AD] US 3433788 A 19690318 - SOMEKH GEORGE S, et al
- [AD] EP 0034400 A2 19810826 - ICI PLC [GB]
- [AD] US 4868335 A 19890919 - FOWLKES ROBERT L [US], et al
- [A] GB 421486 A 19341221 - IG FARBENINDUSTRIE AG

Cited by

EP0881211A1

Designated contracting state (EPC)

BE CH DE FR GB LI NL

DOCDB simple family (publication)

US 5074967 A 19911224; DE 69203135 D1 19950803; DE 69203135 T2 19951102; EP 0508280 A2 19921014; EP 0508280 A3 19921119; EP 0508280 B1 19950628

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